June 30, 2006 Job No.: 0369, 001.00

Rodney and Georgia Miller Irrevocable Trust % Gayle Veale 416 South Oregon Street Yreka, CA 96097

Groundwater Monitoring Report - March 2006 Event 198 High Street Sebastopol, California

Dear Ms. Veale:

Please accept this as Edd Clark & Associates, Inc.'s (EC&A's) report of the March 2006 groundwater monitoring event at 198 High Street (site) in Sebastopol, California (Figure 1). Groundwater monitoring is being conducted at the site at the request of the County of Sonoma Department of Health Services (CSDHS) because of a release of fuel hydrocarbons (FHCs) to the subsurface from underground storage tanks (USTs) for gasoline and diesel formerly located at the site. A 33-day high vacuum dual-phase extraction (HVDPE) event was conducted at the site from September 2, 2005 to October 21, 2005. The March 2006 event is the second sampling event since the conclusion of the HVDPE event. Work conducted for the March 2006 groundwater monitoring event included measuring depth to water (DTW) in and collecting groundwater samples for chemical analysis from monitoring wells MW-1 through MW-5 and extraction wells EW-1 and EW-2 (Figure 2); calculating groundwater-flow direction and gradient; evaluating the results of the analyses and calculations; and preparing this report. A copy of this report will be sent to the CSDHS for their review.

Groundwater-level Measurements

On March 9, 2006, EC&A personnel measured DTW in MW-1 through MW-5, EW-1 and EW-2. DTW below the top of the well casing (TOC) in each well was measured to the nearest 0.01 foot (ft) with a water-level meter. The meter was cleaned and rinsed prior to taking measurements in each well. The DTW was recorded after the well caps were removed and groundwater in the wells was allowed to equilibrate for a minimum of 15 minutes. The DTW in MW-1 through MW-5, EW-1 and EW-2 ranged from 15.93 ft (MW-3) to 20.40 ft (MW-1), and the calculated groundwater-flow direction and gradient in the vicinity of the former USTs were N03°W and 0.013 ft/ft, respectively (Table 1 and Figure 3).

Groundwater Field Logs containing the DTW measurements are in Appendix A. DTW data will be electronically submitted to the State GeoTracker Internet Database.

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Groundwater Sampling

On March 9, 2006, EC&A personnel collected groundwater samples from MW-1 through MW-5, EW-1 and EW-2. Prior to collecting samples, the wells were purged with a submersible pump and the purged water was checked for the presence of free-floating product. Free-floating product was not detected in the purged water; however, an odor of FHCs was detected in water purged from EW-1. Groundwater pH, temperature and electric conductivity were measured during purging of the wells at intervals of approximately one well-casing volume. Groundwater samples were collected from the wells after groundwater parameters stabilized and either the water level returned to a minimum of 80% of the initially recorded water level or sufficient water had re-entered the well to enable sample collection. Purge volumes and groundwater-quality parameters are recorded on the Field Logs in Appendix A.

Groundwater samples were collected in new single-sample, disposable bailers fitted with disposable bottom-emptying devices to minimize water degassing. The samples were transferred from the bailers to properly labeled, laboratory-supplied sterile sample containers, logged on a chain-of-custody form, placed on ice and transported to McCampbell Analytical, Inc. (MAI) for chemical analysis. MAI is a State-certified laboratory in Pacheco, California.

Decontamination Procedures

Sampling equipment was cleaned onsite with a low phosphorous, soap and water solution and double rinsed in tap water. Decontamination water and monitoring well purge water were placed in properly labeled, DOT 17H 55-gallon drums for temporary, onsite storage.

Groundwater Sample Analysis and Analytical Results

All groundwater samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline (g) and benzene, toluene, ethylbenzene and xylenes (BTEX) by Analytical Methods SW8015Cm/8021B. Groundwater samples collected from EW-1 and EW-2 were also analyzed for TPH as diesel (d) by Analytical Method SW8015C.

Benzene and xylenes were detected in the groundwater sample collected from MW-1 at 0.90 micrograms per liter ($\mu g/l$) and 0.58 $\mu g/l$, respectively. TPHg, TPHd and BTEX were detected in the sample collected from EW-1 at concentrations of 730 $\mu g/l$, 85 $\mu g/l$, 0.58 $\mu g/l$, 32 $\mu g/l$, 13 $\mu g/l$ and 150 $\mu g/l$, respectively. MAI described the TPHg results from EW-1 as "heavier gasoline range compounds are significant (aged gasoline?) and no recognizable pattern". MAI described the TPHd results from MW-1 as "gasoline range compounds are significant".

Analytical results for groundwater samples collected from the monitoring and extraction wells are presented in Table 2. A complete copy of the analytical laboratory report is in Appendix B. The results of the analyses of the samples will be electronically submitted to the State GeoTracker Internet Database.

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Discussion

TPHg

TPHg was detected in MW-1 at 300 μ g/l in October 2004 and at 130 μ g/l in March 2005. Analytical results since the July 2005 event indicate that concentrations of TPHg in MW-1 have decreased to ND (three consecutive events). TPHg has only been detected once in MW-2 (51 μ g/l, October 2004), MW-3 (120 μ g/l, July 2005) and MW-4 (82 μ g/l, May 2003). TPHg has been detected in MW-5 for every sample event conducted to date except for the past two events following the HVDPE event. Concentrations of TPHg in MW-5 have decreased from 1100 μ g/l (August 2002) to below the detection limit of 50 μ g/l (November 2005 and March 2006).

The March 2006 event was the third monitoring event for extraction wells EW-1 and EW-2. For the three events conducted to date, EW-2 was non-detect (ND) for TPHg. For the March 2006 event, the only well in which TPHg was detected was EW-1. Although the concentration of TPHg rebounded in EW-1 since the last sampling event (320 μ g/l in November 2005 to 730 μ g/l in March 2006), the concentration has decreased significantly since 3500 μ g/l was detected in July 2005 prior to the HVDPE event.

BTEX

Benzene has not been detected above its reporting limit of 0.5 μ g/l in MW-2, MW-3 and EW-2. In MW-1, benzene has been detected in five of the fourteen events conducted to date and has ranged from 0.68 μ g/l (February 2003) to 8.2 μ g/l (October 2004). In MW-4, benzene has been detected only once (3.6 μ g/l, May 2003).

In MW-5, benzene had been detected for every sampling event up until July 2005, at concentrations ranging from 0.93 μ g/l (December 2003) to 13 μ g/l (August 2002). Since July 2005, benzene has been ND in MW-5. In EW-1, benzene decreased from 26 μ g/l in July 2005 to 0.58 μ g/l in March 2006.

Sporadic, low concentrations of toluene, ethylbenzene, and/or xylenes have been reported in MW-1, MW-2, MW-3 and MW-4. Low concentrations of toluene, ethylbenzene, and/or xylenes have been detected in groundwater from MW-5 for all but the past two events. Between November 2005 and March 2006, concentrations of toluene, ethylbenzene and xylenes increased in EW-1, but are still much lower than the concentrations detected in July 2005. BTEX compounds have not been detected in EW-2.

TPHd

TPHd has not been detected in MW-1 through MW-4 nor EW-2. Although low concentrations of diesel-range compounds were reported in groundwater from MW-5 in four of the eight sample events for which TPHd was analyzed, the laboratory reported that gasoline-range compounds were significant, making it likely that the diesel-range compounds detected in MW-5 represent degraded gasoline. TPHd has been detected in EW-1 for all three events conducted to date at concentrations ranging from 85 μ g/l (March 2006) to 290 μ g/l (July 2005). However, the laboratory has

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consistently reported that gasoline-range compounds were significant, making it likely that the diesel-range compounds detected in EW-1 also represent degraded gasoline. Additionally, for the November 2005 event, the TPHd detection in EW-1 was also characterized by the laboratory as "oil range compounds are significant".

Fuel Oxygenates/Lead Scavengers

The lead scavenger 1,2-DCA has been detected only in groundwater from MW-2 for one sample event (2.1 µg/l, July 2001). MTBE and/or other fuel oxygenates have never been detected in groundwater from site monitoring wells; the two extraction well samples are not analyzed for fuel oxygenates nor lead scavengers.

Conclusions

As in previous sample events, groundwater-flow direction on March 9, 2005, was northerly. MW-2 and MW-4 have been in the approximate down-gradient direction from the location of the former USTs for every sample event. Only sporadic, minor detections of FHCs have been detected in these wells. For the March 2006 event, no analytes were detected in either of these wells.

Although MW-5 is cross-gradient to the former USTs, this well has historically been the most impacted monitoring well on the site. The maximum TPHg, TPHd and benzene concentrations detected to date in MW-5 are $1100 \mu g/l$, $140 \mu g/l$ and $13 \mu g/l$, respectively (all in August 2002). Since November 2005, the first sampling event since the September-October 2005 HVDPE event, no analytes have been detected in MW-5.

In the March 2006 event, the highest FHC concentrations in groundwater at the site were detected in extraction well EW-1. The TPHg and BTEX concentrations in this well had rebounded from the November 2005 concentrations, which were measured immediately after the conclusion of the HVDPE event. However, comparison of the analytical results from the pre-HVDPE event conducted in July 2005 with those from the March 2006 event show that TPHg and benzene concentrations decreased from 3500 μ g/l and 26 μ g/l, respectively, to 730 μ g/l and 0.58 μ g/l, respectively.

Recommendations

EC&A recommends continued quarterly monitoring of all monitoring and extraction wells for at least one more year to evaluate FHC concentration trends in EW-1 and MW-5. Water levels should be measured in all of the wells for each event. Groundwater samples should be collected from each well and analyzed for TPHg/BTEX by Analytical Methods SW8015Cm/8021B. Groundwater samples collected from the extraction wells should also be analyzed for TPHd by Analytical Method SW8015C.

Schedule

A groundwater sampling event was conducted at the site on June 9, 2006.

Richard W

Limitations

The conclusions presented in this report are professional opinions based on the information presented herein, which includes data generated by others. Whereas EC&A does not guarantee the accuracy of data supplied by third parties, we reserve the right to use this data in formulating our professional opinions. This report is intended only for the indicated purpose and project site. Conclusions and recommendations presented herein apply to site conditions existing at the time of our study. Changes in the conditions of the site property can occur with time because of natural processes or the works of man on the site or adjacent properties. Changes in applicable standards can also occur as the result of legislation or from the broadening of knowledge. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond our control.

Thank you for allowing EC&A to provide environmental services for you. Please call John Calomiris, project manager, if you have any questions.

Sincerely,

Etta Jon VandenBosch Environmental Scientist

Richard Ely, PG #4137 Senior Geologist

Attachments:

Figure 1 - Site Location Map

Figure 2 - Site Plan

Figure 3 - Groundwater Elevation Map, 09 March 2006

Table 1- Water Level Data

Table 2 - Analytical Results-Groundwater Samples from Monitoring and

Rund Ely

Extraction Wells

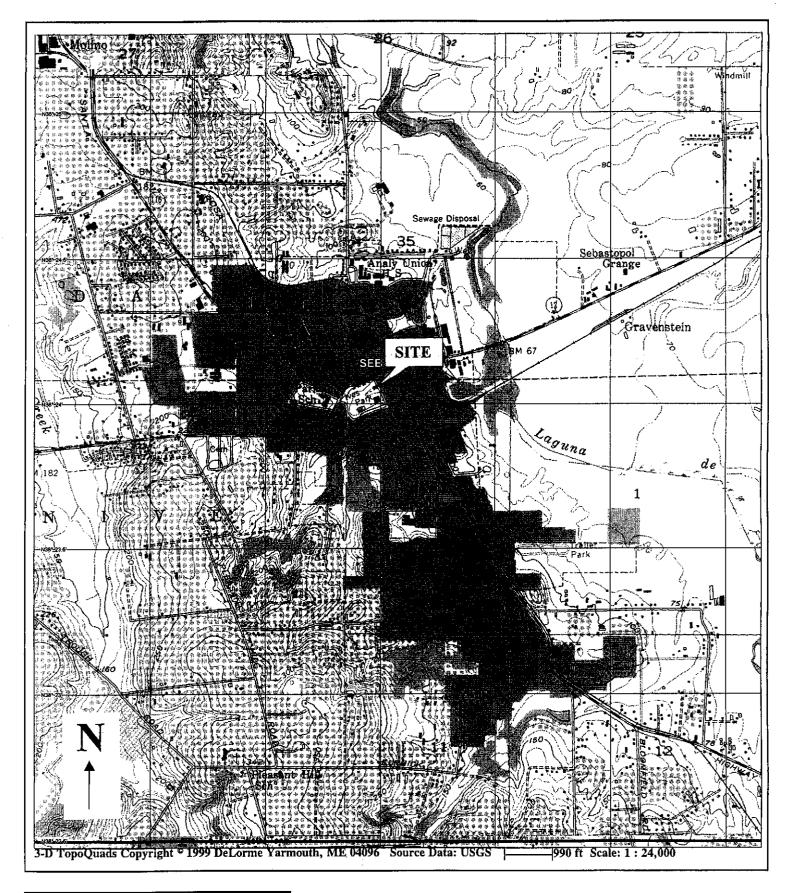
Appendix A - Groundwater Field Logs

Appendix B - Analytical Laboratory Report

Darcy M. Bering, County of Sonoma Department of Health Services

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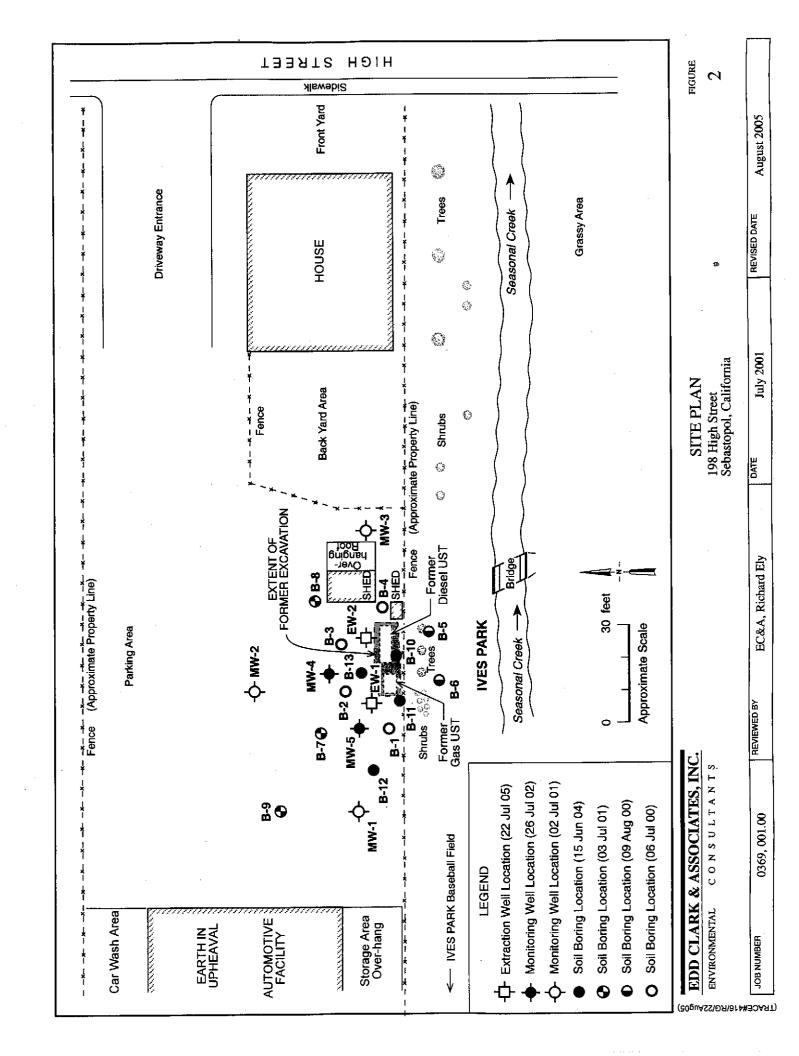
EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

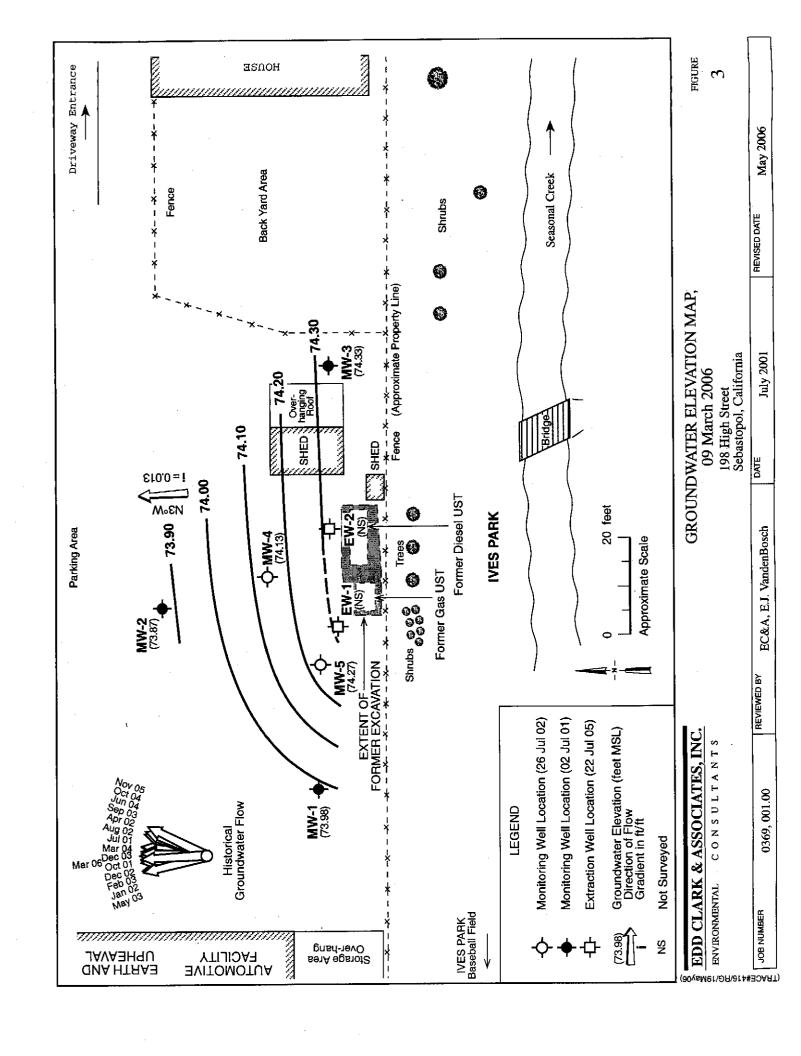
Site Location Map 198 High Street Sebastopol, California

figure 1

JOB NUMBER 0369,001.99

REVIEWED BY: Lori Brown DATE: February 2003 REVISED DATE:





Sample ID	Date	TOC Elevation feet	DTW feet	Groundwater Elevation feet
MW-1	07/12/01	94.38	18.92	75.46
MW-2		93.15	17.88	75.27
MW-3		90.26	14.78	75.48
		Gradient: Due No	rth; 0.006 ft/ft	
MW-1	10/08/01	94.38	20.12	74.26
MW-2		93.15	19.08	74.07
MW-3		90.26	15.96	74.30
		Gradient = N03°	W; 0.006 ft/ft	
MW-1	01/08/02	94.38	19.49	74.89
MW-2		93.15	18.52	74.63
MW-3		90.26	15.13	75.13
		Gradient = N13°	W; 0.011 ft/ft	
MW-1	04/03/02	94.38	19.00	75.38
MW-2		93.15	18.10	75.05
MW-3		90.26	14.97	75.29
		Gradient = N08°	E; 0.0087 ft/ft	
MW-1	08/14/02	94.38	20.43	73.95
MW-2		93.15	19.43	73.72
MW-3		90.26	16.31	73.95
MW-4		92.57	18.71	73.86
MW-5		92.98	19.07	73.91
		Gradient = N04°	E; 0.036 ft/ft	
MW-1	11/06/02	94.38	21.81	72.57
MW-2		93.15	20.77	72.38
MW-3 *		90.26	20.77	69.49
MW-4		92.57	20.05	72.52
MW-5		92.98	20.41	72.57
		Gradient not o	calculated*	

Sample ID	Date	TOC Elevation feet	DTW feet	Groundwater Elevation feet
MW-I	12/03/02	94.38	22.06	72.32
MW-2		93.15	21.04	72.11
MW-3		90.26	17.89	72.37
MW-4		92.57	20.30	72.27
MW-5		92.98	20.67	72.31
		Gradient = N05°	W, 0.0067 ft/ft	
MW-1	02/14/03	94.38	21.49	72.89
MW-2		93.15	20.47	72.68
MW-3		90.26	17.29	72.97
MW-4		92.57	19.72	72.85
MW-5		92.98	20.08	72.90
		Gradient = N06°	W, 0.0071 ft/ft	
MW-1	05/21/03	94.38	22.00	72.38
MW-2		93.15	20.94	72.21
MW-3		90.26	17.72	72.54
MW-4		92.57	20.19	72.38
MW-5		92.98	20.57	72.41
		Gradient = N13°	W, 0.0074 ft/ft	
MW-1	09/15/03	94.38	21.79	72.59
MW-2		93.15	20.81	72.34
MW-3]	90.26	17.74	72.52
MW-4]	92.57	20.10	72.47
MW-5]	92.98	20.43	72.55
		Gradient = N09°	E, 0.0061 ft/ft	

Sample ID	Date	TOC Elevation feet	DTW feet	Groundwater Elevation feet
MW-1	12/15/03	94.38	21.51	72.87
MW-2		93.15	20.59	72.56
MW-3		90.26	17.44	72.82
MW-4		92.57	19.82	72.75
MW-5		92.98	20.14	72.84
		Gradient = N05°	E, 0.008 ft/ft	
MW-1	03/10/04	94.38	20.13	74.25
MW-2		93.15	19.22	73.93
MW-3] .	90.26	16.02	74.24
MW-4		92.57	18.44	74.13
MW-5		92.98	18.75	74.23
		Gradient = N04°	°E, 0.009 ft/ft	
MW-1	06/29/04	94.38	20.13	74.25
MW-2		93.15	19.23	73.92
MW-3		90.26	16.23	74.03
MW-4		92.57	18.52	74.05
MW-5		92.98	18.82	74.16
		Gradient = N20°	°E, 0.008 ft/ft	
MW-1	10/15/04	94.38	21.78	72.60
MW-2		93.15	20.85	72.30
MW-3		90.26	17.84	72.42
MW-4		92.57	20.14	72.43
MW-5		92.98	20.44	72.54
		Gradient = N19	°E, 0.007ft/ft	

Table 1. Water Level Data
198 High Street, Sebastopol, California

Sample ID	Date	TOC Elevation feet	DTW feet	Groundwater Elevation feet
MW-1	03/04/05	94.38	21.60	72.78
MW-2		93.15	20.79	72.36
MW-3		90.26	17.52	. 72.74
MW-4		92.57	19.98	72.59
MW-5		92.98	· 22.80	70.18
		Gradient = N03°	E; 0.012 ft/ft	
MW-1	07/29/05	94.38	21.54	72.84
MW-2		93.15	20.69	72.46
MW-3		90.26	17.66	72.60
MW-4		92.57	19.98	72.59
MW-5		92.98	20.21	72.77
EW-1		NS	19.51	
EW-2		NS	19.48	
		Gradient = N21°	E; 0.009 ft/ft	
MW-1	11/07/05	94.38	21.68	72.70
MW-2		93.15	20.85	72.30
MW-3		90.26	17.84	72.42
MW-4		92.57	20.12	72.45
MW-5		92.98	20.37	72.61
EW-1		NS	19.64	
EW-2		NS	19.61	
		Gradient = N24°	E; 0.008 ft/ft	
MW-1	03/09/06	94.38	20.40	73.98
MW-2		93.15	19.28	73.87
MW-3		90.26	15.93	74.33
MW-4		92.57	18.44	74.13
MW-5		92.98	18.71	74.27
EW-1		NS	17.92	
EW-2		NS	17.80	
		Gradient = N03°	W; 0.013 ft/ft	

<u>Notes</u>

TOC: Top of casing elevation measured relative to mean sea level (msl)

DTW: Depth to water from TOC

NS: Not surveyed

*: Due to anomalous data for MW-3, November 6, 2002 DTW measurements were not used to calculate the groundwater-flow direction and gradient. Measurements were taken again on December 3, 2002 and used for gradient evaluation.

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Table 2. Analytical Results - Groundwater Samples from Monitoring and Extraction Wells 198 High Street, Sebastopol, California

Well ID	Sample Date	DTW feet	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl- benzene µg/l	Xylenes µg/l	MTBE µg/l	Other Oxygenates µg/l	EDB µg/l	1,2-DCA µg/l
MW-1	07/12/01	18.92	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	QN	QN
	10/08/01	20.12	ND<50	ND<50	ND<0.5	0.70	0.68	2.1	ND<1.0	QN	ND	QN
	01/08/02	19.49	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	QN	ND
	04/03/02	19.00	ND<50	ND<50	ND<0.5	0.53	ND<0.5	1.4	ND<0.5	ND	ND	ND
	08/14/02	20.43	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5	ND<0.5
	11/06/02	21.81	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5	ND<0.5
	02/14/03	21.49	ND<50	NA	89.0	ND<0.5	ND<0.5	0.85	ND<0.5	ND	ND<0.5	ND<0.5
	09/12/03	21.79	ND<50	NA	ND<0.5	ND<0.5	1.8	2.8	NA	NA	NA	NA
	03/10/04	20.13	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	NA	NA
	10/15/04	21.78	300 °	NA	8.2	49	11	48	NA	NA	NA	NA
	03/04/05	21.60	130 a	NA	2.1	13	3.1	12	NA	NA	NA	NA
	07/29/05	21.54	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	NA	NA
Post-	11/07/05	21.68	ND<50	NA	1.1	0.88	0.91	6.1	NA	NA	NA	NA
HVDPE Samples	03/06/06	20.40	ND<50	NA	0.90	ND<0.5	ND<0.5	0.58	NA	NA	NA	NA
MW-2 [†]	07/12/01	17.88	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	QN	ND	2.1
	10/80/01	19.08	ND<50	ND<50	ND<0.5	ND<0.5	0.62	1.1	ND<1.0	NO	ND	ND
	01/08/02	18.52	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	ND	ND
	04/03/02	18.10	ND<50	ND<50	ND<0.5	0.63	0.58	1.6	ND<0.5	ND	ND	ND
	08/14/02	19.43	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5	ND<0.5
	11/06/02	20.77	ND<50	ND<50	ND<0.5	69.0	ND<0.5	1.4	ND<0.5	ND	ND<0.5	ND<0.5

Table 2. Analytical Results - Groundwater Samples from Monitoring and Extraction Wells 198 High Street, Sebastopol, California

Well ID	Sample Date	DTW feet	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene μg/l	Ethyl- benzene µg/l	Xylenes µg/l	MTBE µg/l	Other Oxygenates µg/l	EDB µg/l	1,2-DCA µg/l
MW-2 [†]	02/14/03	20.47	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	ND<0.5	ND<0.5
continued	09/15/03	20.81	ND<50	NA	ND<0.5	ND<0.5	76.0	1.7	NA	NA	NA	NA
	03/10/04	19.22	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	NA	NA
	10/15/04	20.85	51 a	NA	ND<0.5	1.7	0.55	2.5	NA	NA	NA	NA
	07/29/05	20.69	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	NA	NA
Post-	11/07/05	20.85	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	NA	NA
HVDPE Samples	03/06/06	19.28	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	NA	NA
MW-3 [†]	07/12/01	14.78	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	QN	QN
	10/80/01	15.96	ND<50	ND<50	ND<0.5	0.70	89.0	2.1	ND<1.0	ND	ND	ND
	01/08/02	15.13	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	ND	ND
	04/03/02	14.97	ND<50	ND<50	ND<0.5	0.54	ND<0.5	1.3	ND<0.5	ND	ND	QN
	08/14/02	16.31	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	QN	ND<0.5	ND<0.5
	11/06/02	20.77	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	GN	ND<0.5	ND<0.5
	02/14/03	17.29	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5	ND<0.5
	09/12/03	17.74	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	NA	NA
	03/10/04	16.02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	NA	NA
	10/15/04	17.84	ND<50	NA	ND<0.5	3.4	96.0	4.2	NA	NA	NA	NA
	07/29/05	17.66	120 b	NA	ND<0.5	9.3	3.3	13	NA	NA	NA	NA
Post-	11/07/05	17.84	ND<50 i	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	NA	NA
HVDPE Samples	03/09/06	15.93	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	NA	NA

Table 2. Analytical Results - Groundwater Samples from Monitoring and Extraction Wells 198 High Street, Sebastopol, California

1,2-DCA µg/l	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	NA	Ϋ́							
EDB µg/l	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	NA	NA							
Other Oxygenates µg/l	ND	. QN	NA	QN	NA	ΩN	ND	ND	ND	NA	NA	NA	NA							
MTBE µg/l	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	NA	NA							
Xylenes µg/l	ND<0.5	ND<0.5	ND<0.5	5.8	0.73	ND<0.5	ND<0.5	ND<0.5	4.7	ND<0.5	1.2	ND<0.5	50	30	24	18	32	2.8	12	6.3
Ethyl- benzene μg/l	ND<0.5	ND<0.5	ND<0.5	2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.1	ND<0.5	ND<0.5	ND<0.5	3.6	2.2	11	12	21	ND<0.5	7.8	6.5
Toluene µg/l	ND<0.5	ND<0.5	ND<0.5	3.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.5	ND<0.5	ND<0.5	ND<0.5	12	7.1	7.6	3.1	2.6	ND<0.5	1.2	0.61
Benzene µg/l	ND<0.5	ND<0.5	ND<0.5	3.6	ND<0.5	13	6.6	9.6	9.7	12	0.93	4.7	3.1							
TPHd µg/l	ND<50	ND<50	NA	ND<50	ND<50	ND<50	NA	NA	NA	NA	NA	NA	140 ^d	71 ^d	NA	ND<50	81 ^d	ND<50	83 d	ND<50
TPHg µg/l	ND<50	ND<50	ND<50	82.a	ND<50	1100 a	470 в	в 058	∗ 09€	540 a	72 a	200 a	210 a							
DTW feet	18.71	20.05	19.72	20.19	20.10	19.82	18.44	18.52	20.14	86.61	20.12	18.44	19.07	20.41	80.02	20.57	20.43	20.14	18.75	18.82
Sample Date	08/14/02	11/06/02	02/14/03	05/21/03	09/12/03	12/15/03	03/10/04	06/29/04	10/15/04	07/29/05	11/07/05	03/06/06	08/14/02	11/06/02	02/14/03	05/21/03	09/15/03	12/15/03	03/10/04	06/29/04
Well ID	MW-4 †										Post-	HVDPE Samples	MW-5							

Analytical Results - Groundwater Samples from Monitoring and Extraction Wells 198 High Street, Sebastopol, California Table 2.

Well ID	Sample Date	DTW feet	TPHg l/gn	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl- benzene µg/l	Xylenes µg/l	MTBE µg/l	Other Oxygenates µg/l	EDB μg/l	1,2-DCA μg/l
MW-5	10/15/04	20.44	170 a	ND<50	3.9	21	5.6	22	NA	NA	NA	NA
continued	03/04/05	22.80	120 ª	NA	2.3	ND<0.5	3.8	6.0	NA	NA	NA	NA
	07/29/05	20.21	q 99	NA	ND<0.5	8.2	2.8	12	NA	NA	NA	NA
Post-	11/07/05	20.37	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	NA	NA
HVDPE Samples	90/60/£0	18.71	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	NA	NA
EW-1	07/29/05	19.51	3500 a	р 067	26	300	75	370	NA	NA	NA	NA
Post-	50/20/11	19.64	320 b	280 d.f.s	ND<0.5	3.8	1.2	53	NA	NA	NA	NA
HVDPE Samples	90/60/20	17.92	730 ъ.ш	p S8	0.58	32	13	150	NA	NA	NA	NA
EW-2	07/29/05	19.48	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	NA	NA
Post-	11/07/05	19.61	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	NA	NA
HVDPE Samples	90/60/20	17.80	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	NA	NA

	MW-2, MW-3 and MW-4 are sampled semi-annually at seasonally	low and high water-table levels	Unmodified or weakly modified gasoline is significant	Heavier gasoline range compounds are significant (aged gasoline?)	Gasoline range compounds are significant	One to a few isolated peaks present	Oil range compounds are significant	Liquid sample that contains greater than ~ 1 vol. % sediment	No recognizable pattern	
			.: ::	<u>;</u>	÷;	f:	ρņ	. ::	m:	
	Total petroleum hydrocarbons as gasoline	Total petroleum hydrocarbons as diesel	Methyl tert-butyl ether; analyzed by Analytical Method	SW8260B unless noted otherwise	1,2-dibromoethane	A: 1,2-dichloroethane	Micrograms per liter	Not detected above the reporting limit	Not analyzed	Not sampled
Notes	TPHg:	TPHd:	MTBE:		EDB:	1,2-DCA:	μg/l:	ND:	NA:	NS:

Appendix A Groundwater Field Logs

DAILY FIELD RECORD	1 .		Page	1 of
Project and Task Number: 036 9	Date: 39/	062	· · · · · · · · · · · · · · · · · · ·	
Project Name: EARTH IN WHENT			y GREY	VO WATER
Location: 198 H14H ST	Weather:	Wow 4	MING	
Time of OVM Calibration:				
THE STATE OF THE S	TOWN DOOR SHOW	10 to 10 ft (2)	a na marije inice	
Name	Company		Time In	Time Out
CHRIS	ECHA			
Rooney	ECHA	<u> </u>	4	
			•	
	· · · · · · · · · · · · · · · · · · ·			
		77.5		
HEROMETERS SHEET SEEDS SEEDS AND RESERVED STORES OF THE SEEDS OF THE S	olis olipiosen, mors		- POSMENT	And the second
2125 DRUMS		UNDER	- SHOO	
- #		<u> </u>		· .
Brenz HT 2xt25	1) Rums	7 BA	ims	
LUAD ORDER	2 2, 3, Ew-	- 2/ (1,5, Ew	-1
Defort	11 6	· · · · · · · · · · · · · · · · · · ·		
ONSITE, DREN ALL	wells 3 se		Decan	15.717
TAKE OTW'S MW-1 2014			W-5 1871	EW-21 70
MW-2 14.78	MW-4 18.	<u>4 000</u>	N-1 17	2 1
CACCULATE GWY LOGS A	NO BEGIN	+ very	my wells	THE CHANGE
ACCURATE GNF LOGS A ALLOW TIME FOR WELLS THRE POST PURLED	TU YECHAH	age		
PAR POST YVELE D	NOS TO	0000	·	
BEGIN Collecting SAMP close 3 WCK wells	71ES 470	9-124		
CLEAN UP SITE				
Depart.		· =		
Det pict.				
	· · · · · · · · · · · · · · · · · · ·			
			·	
				ŀ

GROUNDWA	TER	□ SURF	ACE WATER		☐ DOMESTIC	WATER	☐ IRRIGATIO	ON WATER	□ WELL I	DEVELOPMENT
<u> </u>)369					Field poin	t name: \\W		1	
Global ID:	2609	7 00	グフ			Well depth	from TOC:	25		
Project location:	198		t STRE	es		Well diam	eter: 🕱 2" 🗆	4 " □ 6"	☐ Other:	
Date: 3	090					Product le	vel from TOC:	Cay		
Time:	1:00					Water leve	l from TOC:	20.9	0	
<u> </u>	HRIS	7/	ROOM	64		Screened i	nterval:	10-2	5	
Purge time (durat		<u> </u>		<u> </u>		Well eleva	tion (TOC):	94	38	
		 			WEA	THER				
Wind:		ID.	m	PH		Precip. in	last 5 days:	yes		
					ATER TO BE R	EMOVED	BEFORE SAM	PLING		
2" well = 0.17	gal/ft 4	10	☐ 6" well = 1	.47 ga	ıl/fit	Gailons in	1 well volume:	(169	
☐ 4" well = 0.66		1	□ " well =	ga	ıl∕ft	Total galle	ons removed:	20	Well volumes re	moved: 3
					CALIB	RATION			•	
Parameter	Tin	ne	Calibration	E	Before Sampling		Time		After	Sampling
							,	_	····	
EC:										
					FIELD MEA	SUREMEN	TS			
Time	pН	EC (x1000	Temp °	F	Case Volumes/ Gallons			Appea	rance	
6.89 413 60.5 11 17 Low Texas No oder no Skrey									rey	
	667	425	60.6		2/ /14	<u> </u>		<u> </u>	_	
(60	424	60./		3/21	₽≥	ndry (9)	21		
					lay		·.			
Notes:			·	<u> </u>		· · ·		<u> </u>		
					· · · · · · · · · · · · · · · · · · ·					
					<u></u>	<u> </u>			<u>` </u>	
	·		<u>,</u>		<u> </u>	·				
		mc c	D • ·	- T.	80% of original w	inton larval ha	low TOC:		5	У
Water level after			Ory		80% of original w	ater level be	10W 10C.	- - · · · <u>· · · · · · · · · · · · · · · ·</u>		
Water level befor		Delow 10	<u></u>						Time	385
□ Bailer:	Type:		GPM:	1	Pump: ES-V	Type: Sub	mersible		GPM: 1 2	
☐ Dedicated:	Type:		GPM:	H -	Decontamination			ble rinse		
Sample analysis:	Турс.	Ig 🗆		PH.	TR Z	☐ 7 oxygen		scavengers	□ VOCs	□ Nitrates
EPA Method:	- <i>-</i>			,						
Other:										· · · · · · · · · · · · · · · · · · ·
LABORATORY	McCai	mpbell Ana	lytical [Othe	er;	-	- - ·			

GROUND	WATER	☐ SURFAC	CE WATER	□ DOMESTIC	WATER	☐ IRRIGATION WAT	ER 🗆 WELL	DEVELOPMENT	
Project No:	0369				Field point	name: WW —	<u> </u>		
Global ID:	T0609	7 00	517		Well depth	from TOC: 25			
Project locati	ion: 198	HIGH	STREET		Well diame	eter: 🗚2" 🗆 4 " 🖂	6" □ Other:		
Date:	30				Product lev	vel from TOC: NO	. •		
Time:	100	0			Water leve	l from TOC: 19.	28		
Recorded by:	^	/	Rooher	1	Screened in	nterval:	-25		
Purge time (d					Well eleva	tion (TOC): GZ	15		
				WEA	THER	4			
Wind:	>	10	MPL		Precip. in	ast 5 days:	5		
			VOLUME OF	WATER TO BE R	EMOVED I	BEFORE SAMPLING			
2" well =	0.17 gal/ft	5,7a c	6" well = 1.47	gal/ft	Gallons in	I well volume:	7		
□ 4" well =	0.66 gal/ft] " well =	gal/ft	Total gallo	ns removed:	Well volumes	emoved: 3	
				CALIB	RATION		1		
Parameter	Tit	ne	Calibration	Before Sampling	1	Time	Afte	r Sampling	
EC:								**	
		· · ·		FIELD MEA	SUREMENT				
Time	pН	EC (x1000)	Temp °F	Case Volumes/ Gallons		Apj	pearance		
6.96 884. 63.7 11 howtoil no occe in sheen									
	6.91	859	64	2/3			· · · · · · · · · · · · · · · · · · ·		
	6,92	81/	64	3/3		· .			
				/	<u> </u>				
Notes:							,		
		·	· · · · · · · · · · · · · · · · · · ·		···-				
							• •		
							<u> </u>		
				80% of original w	rater level hal	low TOC:	s ⁱ	9	
	fter purging be		19.5	8078 OF OFIGHTAL W	ater rever be	low 100.			
Appearance	of some lat	Below TOC.	1115				Time	e: 250	
□ Bailer:	Type:		PM:	Pump: ES-	Type: Sub	mersible	GPM: 1 2		
☐ Dedicated			PM:			ninox wash, double rinse			
Sample analy	1 1	 _			☐ 7 oxygena		rs □ VOCs	☐ Nitrates	
EPA Method								· .	
Other:	<u>l</u>								
	RY: McC	mpbell Analy	tical D	ther:					

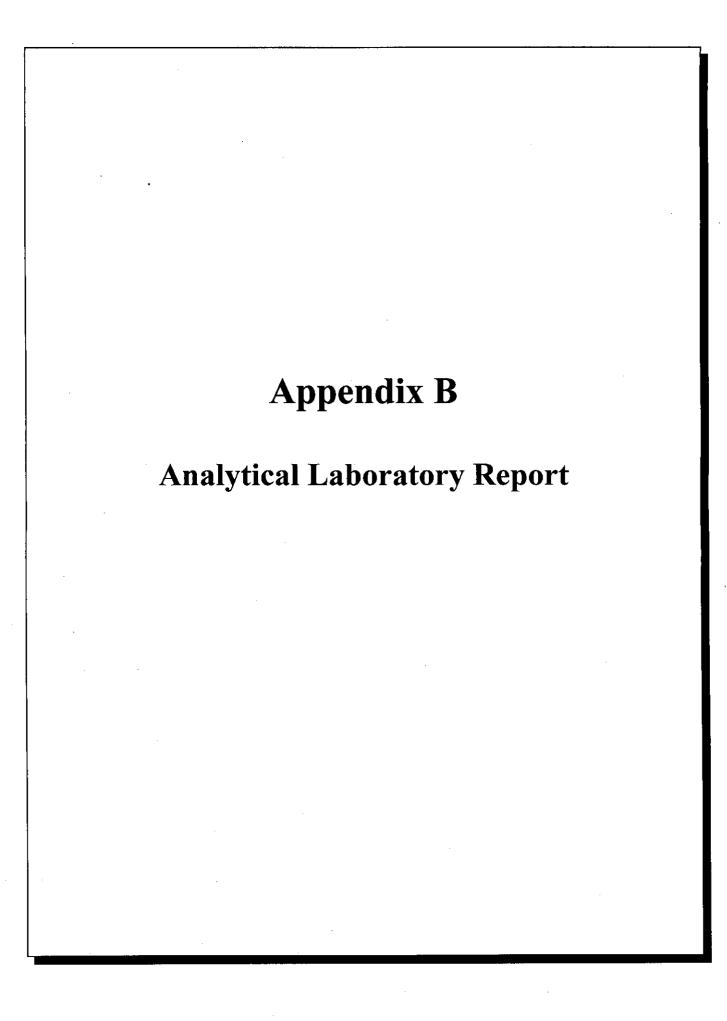
GROUNDWATER	☐ SURI	FACE WATER	□ DOMESTIC	WATER	☐ IRRIGATIO	ON WATER	☐ WELL DEVELOPMENT
Project No: 036°				Field point	name: MV	U-3	
Global ID: TO60		517		Well depth	from TOC:	2 5	
Project location: 199		H STREE	2K	Well diame	eter: 🔼 2" 🗆	4 " □ 6" □	Other:
Date: 3/9/	06			Product lev	el from TOC:	200	
Time: //200				Water leve	l from TOC:	15.93	
Recorded by: OHR	57/	ROOM	<u> </u>	Screened in	nterval:	10-25	
Purge time (duration):				Well eleva	tion (TOC):	90,2	6
			WEA	THER			
Wind:	10	mp	14	Precip. in l	ast 5 days:	<u> 9es</u>	
		VOLUME O	F WATER TO BE R	EMOVED I	BEFORE SAM		
2" well = 0.17 gal/ft	9.07	☐ 6" well = 1.4	7 gal/ft	Gallons in	1 well volume:	1,54	
☐ 4" well = 0.66 gal/ft		□ " well =	gal/ft	Total gailo	ns removed:	4,5 W	ell volumes removed:
			T*****	RATION	: ,		
Parameter	ime	Calibration	Before Sampling		Time		After Sampling
					* .		
EC:							
		· .	FIELD MEA	SUREMENT	TS		
Time pH	EC (x1000	Temp °F	Gallons	Lon	tivb	Appearance	DL no sheep
7.13	572	598	1/ 1.5				
7.10	58'		2/3				
7.08	600	59.8	3/4,5	<u> </u>		· · · · · · · · · · · · · · · · · · ·	
	<u></u>		1.	<u> </u>			
Notes:	•	· · · · · · · · · · · · · · · · · · ·		 	·	<u> </u>	
				· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
	 _			· .	· · · · · · · · · · · · · · · · · · ·		
		<u> </u>		.,			
Water level after purging	celow TOC:		80% of original w	ater level bel	ow TOC:		ζ.
Water level before sampli	ng below TO	c: 16					290
Appearance of sample:	· · · · · · · · · · · · · · · · · · ·		11. 140	<u> </u>	· · · · · · · · · · · · · · · · · · ·		Time: 300
☐ Bailer: Type:		GPM:	Pump: ES-		······		M(: 1) 2
☐ Dedicated: Type:		GPM: 🦠	Decontamination				
Sample analysis:	PHg 🗆	TPHd □ TPI	H KBTEX	□ 7 oxygena	tes 🗆 Lead	scavengers	□ VOCs □ Nitrates
EPA Method:	<u>.</u>	\	<u> </u>			<u> </u>	
Other:		•			<u> </u>		
LABORATORY: M Mc	amphell An	alvticai 🔲	Other:		·		

GROUNDV	VATER	☐ SURFA	CE WATER	☐ DOMESTIC	WATER	□ IRRIGATIO	ON WATER	□ WELL D	EVELOPMENT			
Project No:	0369				Field poin	name: mW	- 4		· · · · · · · · · · · · · · · · · · ·			
Global ID:	Thana	7 60	517		i .	from TOC:	25					
Project locatio	n: 198	H14H		1	Well diameter: 2" □ 4 " □ 6" □ Other:							
Date:		VIII			Product level from TOC:							
<u> </u>	100				Water level from TOC: 18.44							
Recorded by:	Otteis	7/	Roone	4	Screened i	nterval:	10-2	5				
Purge time (du					Well elevation (TOC): 97,57							
				WEA	THER							
Wind:		10	mpi	4	Precip. in	last 5 days:	yes					
				WATER TO BE F	REMOVED	BEFORE SAM	PLING					
2" well = 0	.17 gal/ft (5,5	☐ 6" well = 1.47	gal/ft	Gallons in	1 well volume:	<u> , </u>					
☐ 4" well = 0	.66 gal/ft	[□ " well =	gal/ft	Total gallo	ons removed:	3,3	Well volumes re	moved: 3			
				CALIB	RATION			1				
Parameter	Tir	ne	Calibration	Before Sampling		Time		After	Sampling			
EC:	· :											
				FIELD MEA	SUREMEN'	<u>rs</u>						
Time	pН	EC (x1000)	Temp °F	Case Volumes/ Gailons			Appear	ance				
'	699	ያንን	61.4	1/ [,]	Low	tuch	no ode	er nos	hea			
	6.53	885	62,0	2/ 2.7	<u> </u>							
	6.61	821	62.1	3/3,3	<u> </u>		•					
				/	<u> </u>							
Notes:			<u> </u>				<u>.</u>					
·	· · · · · · · · · · · · · · · · · · ·	· 							·			
		<u> </u>	<u>.</u>		·			·				
·			<u> </u>			,	<u> </u>	<u>-</u>	<u> </u>			
				80% of original v	votor lavel be	low TOC		#	Ц			
Water level aft			: 18,5	90% of original v	ATCL ICACI DE	IOM TOC.						
Water level be		oelow IOC	10,7		 -			Time:	335			
Appearance of Bailer:			GPM:	Pump: ES-	Type: Sub	mersible		GPM: 1)2				
☐ Dedicated:	Type:		GPM:	Decontamination		· · · · · · · · · · · · · · · · · · ·						
Sample analys					□ 7 oxygen:		scavengers	□ VOCs	□ Nitrates			
EPA Method:												
Other:												
LABORATOR	V. M. McCa	mphell Angl	vtical □ O	ther								

GROUND	WATER	□ SURF	ACE WA	TER	☐ DOMEST	C WATER		RRIGATION WATER	. D WELL	DEVELOPMENT		
Project No:	0369					Field point name: MW - 5						
Global ID:	70609	7 60	517	,		Well dept	h from	тос: 🤧				
Project locati	on: 198		H S	rees		Well dian	neter:	X [2" □4" □6"	☐ Other:			
Date: 3	19/06			<u> </u>		Product le	evel fro	m TOC: NO				
Time:	(0)		<u> </u>			Water lev	el from	TOC: 18,7/				
Recorded by:		7/	20	Ore	1	Screened	interva	10 ~ ð	5			
Purge time (d			t			Well elev	ation (roc): 42, 9	8	·		
					W	EATHER						
Wind:		6		MPH		Precip. in	last 5	days: YeS				
		<u>~</u>	VOLU	ME OF	WATER TO BI	E REMOVED	BEFO	RE SAMPLING				
2" well =	0.17 gal/ft 6	,39	□ 6" we	11 = 1.47	gal/ft	Gallons in	n I wel		6			
☐ 4" weil = 0	0.66 gal/ft		□ " we	:11 =	gal/ft	Total gall	ons ren	moved: 3.3	Well volumes re	emoved: 3		
					CAL	IBRATION						
Parameter	Tir	ne	Calibra	tion	Before Samplin	g	7	lime .	After	Sampling		
EC:												
		·	_		FIELD MI	EASUREMEN	TS					
Time	pН	EC (x1000		emp °F	Case Volumes Gallons	/		Appea	rance			
	617	654	6	(/	1/ [.]	Lo	W !	trub no c	2000 ha	Sheen		
	61.8	697		17	2/23							
	61.8	725	6	68	3/33	_						
					1	<u> </u>						
Notes:						······································						
_				<u></u>	<u>·</u>	· · ·						
					1			<u> </u>				
	<u> </u>	· · ·				 -		<u> </u>				
Water level a	fter purging be	low TOC:			80% of origina	l water level be	low T	OC:	,	9		
Water level b	efore sampling	below TO	c: 1°	8,7 <u>5</u>						nu		
Appearance of	of sample;			- 1		اما			Time	345		
□ Bailer:	Туре:		GPM:		Pump: ES-	-			GPM: 1 2			
☐ Dedicated		·	GPM:					wash, double rinse	1			
Sample analy	sis: TPF	ig 🗆 🗆 🤈	TPHd .	☐ TPH	BTEX	□ 7 oxyger	ates	☐ Lead scavengers	□ VOCs	☐ Nitrates		
EPA Method	<u>: </u>	<u>: </u>						<u></u>				
Other:	V -											
ሰፐ ለ ወረገው ለ ፐርስ	DV M McCar	mnhell And	Indical	□ Ot	ner'							

GROUND	WATER	□ SURF	ACE WATEI	₹.	□ DOMESTIC	WATER	□ IRRIGAT	TION WATER	☐ WELL DE	EVELOPMENT
Project No:	0369	· · · · · · · · · · · · · · · · · · ·				Field point	name:	<u>ルーー</u>		
Global ID:	T0609	7 60	517			Well depth	from TOC:	30		
Project location	on: 198	114	H STR	eek	·	Well diam	eter: 🗆 2"	4 " □ 6"	☐ Other:	
Date: 7	-1-1/-90 -	6				Product le	vel from TOC	M		
Time:	11:00	<u> </u>				Water leve	l from TOC:	17.9	2	
Recorded by:	^ .	7/	ROOM	رون	·)	Screened i	nterval:	10 - 3	0	
Purge time (d		<u> </u>				Well eleva	tion (TOC):	1		
<u> </u>					WEA	THER				
Wind:) \	10	^	PH		Precip. in	last 5 days:	yes		
			VOLUM	E OF V	VATER TO BE I	REMOVED	BEFORE SA	MPLING		
□ 2" well = 0	0.17 gal/ft 4		□ 6" well =	1.47 g	al/ft	Gallons in	1 well volum			
4" well =	0.66 gal/ft	7,08	□ " well =	g	al/ft	Total gallo	ons removed:	74	Well volumes rem	noved: S
					CALIB	RATION_	· 			
Parameter	Ti	ne	Calibration	1	Before Sampling		Time		After S	ampling
EC:					·				-	
	· · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	FIELD MEA	SUREMEN	TS	· ·		
Time	pН	EC (x1000	Temp	°F	Case Volumes/ Gallons			Appear		
	7,10	763		}	1/5	LOW	TURB	HC/Su	THUR CO	<u> </u>
	7.32	7611		10	2/16		- N	10 SH	een)	
	7.27	791	3 62	,3	3/24			·		
	<i>.</i>				1					<u> </u>
Notes:				· ·						
•										
									5.4	
								<u> </u>		
***	^h	Arm TOC		1	80% of original v	vater level be	low TOC:		#	y
	fter purging be efore samplin		C: 18))	407 0 01 01 g					w
Appearance (g Delow 10		<u></u> .				-	Time:	400
Bailer:	Type:	-	GPM:		Pump: ES-	Type: Sub	mersible		GPM: 1 2	
☐ Dedicated			GPM:		Decontamination	•	uinox wash, d	louble rinse		
Sample analy		Hg 🗆		TPH	BTEX	□ 7 oxygen	ates 🗆 Le	ad scavengers	□ VOCs	□ Nitrates
EPA Method										
Other:		 .						į.		
	DV NoC		nistical	CT Oth	ner:					

GROUND	WATER	☐ SURFAC	E WATER	☐ DOMESTIC	WATER	□ IRRIGATI	ON WATER	□ WELL Ď	EVELOPMENT
Project No:	0369				Field point	name: Eu	7 - 5		
Global ID:	Thung	7 605	1フ		Well depth	from TOC:	30		
Project location	n: 198		STREET		Well diam	eter: 🗆 2" 🔀	4 " □ 6"	☐ Other:	
Date: 3	1 - V 1 V -				Product le	vel from TOC:	2	A	
Time:	1100				Water leve	l from TOC:	17.80	<u></u>	
Recorded by:	Ottris	7/	ROOHE	1	Screened i	nterval:	10-3	<u>`</u>	
Purge time (di					Well eleva	tion (TOC):			
•				WEA	THER				
Wind:		10	MPL		Precip. in	last 5 days:	yes		
		\	OLUME OF	WATER TO BE R	EMOVED	BEFORE SAM			
□ 2" well = 0).17 gal/ft		6" well = 1.47	gal/ft	Gallons in	1 well volume:	8,05		
4" well = 0	0.66 gal/ft	7,2 -	" well =	gal/ft	Total gallo	ns removed:	24	Well volumes ren	noved:
7					RATION	.**	· · ·	· · · · · · · · · · · · · · · · · · ·	
Parameter	Tin	ne C	Calibration	Before Sampling	· · · · · · · · · · · · · · · · · · ·	Time		After S	ampling
							·	<u> </u>	
EC:									
		· · · · · · · · · · · · · · · · · · ·	<u> </u>	FIELD MEA	SUREMEN'	rs			
Tíme	pН	EC (x1000)	Temp °F	Case Volumes/ Gallons			Appeara	ance	
	6.88	508.7		1/8	10w	TURB	NO	CASUS VA	SHOUN
	7.48	5454	60.9	21 16		·			
	7.41	558.3	61.5	3124					
			· <u></u>	/					
Notes:					<u> </u>				
					•		<u> </u>		<u> </u>
	·				•			<u> </u>	
	·	·			•	<u> </u>	.:	<u> </u>	
Water level at	ter purging be	low TOC:		80% of original v	ater level be	low TOC:		,	y
	efore sampling		17.8						
Appearance o								Time:	_3iS
□ Bailer:	Туре:	GI	PM:	Pump: ES-	Type: Sub	mersible		GPM: 13.2	,
□ Dedicated	Туре:	GI	PM:	Decontamination	method: Liq	uinox wash, dou	ble rinse		
Sample analy	sis: XTPI	Hg □ TPI	Id □ TPH	BTEX	□ 7 exygen	ates	scavengers	`□ VOCs	☐ Nitrates
EPA Method:									
Other:									
LABORATO	RY: X McCa	mpbell Analyti	cal 🗆 O	ther:					





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Edd Clark & Associates, Inc.	Client Project ID: #0369; Earth In	Date Sampled: 03/09/06
320 Professional Center Ste. 215	Upheaval	Date Received: 03/10/06
Dalamant Darle CA 04039	Client Contact: Chris Janiszewski	Date Reported: 03/14/06
Rohnert Park, CA 94928	Client P.O.:	Date Completed: 03/14/06

WorkOrder: 0603177

March 14, 2006

Dear Chris:

Enclosed are:

- 1). the results of 7 analyzed samples from your #0369; Earth In Upheaval project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Best regards,

Angela Rydelius, Lab Manager



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Edd Clark & Associates, Inc.	Client Project ID: #0369; Earth In Upheaval	Date Sampled: 03/09/06
320 Professional Center Ste. 215		Date Received: 03/10/06
	Client Contact: Chris Janiszewski	Date Extracted: 03/11/06-03/13/06
Rohnert Park, CA 94928	Client P.O.:	Date Analyzed: 03/11/06-03/13/06

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction meth	od: SW5030B	runge (©		tical methods: SV		•	TEX and MTI		rder: 06	03177
Lab ID	Client ID	Matrix	TPH(g)	мтве	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% S
001A	MW-I	w	ND		0.90	ND	ND	0.58	1	106
002A	MW-2	w	ND		ФИ	ND	ND	ND	1	103
003A	MW-3	w	ND		ND	ND	ND	ND	1	111
004A	MW-4	w	ND		ND	ND	ND	ND	1	107
005A	MW-5	w	ND		ND	ND	ND	ND	1	99
006A	EW-1	w	730 , b,m		0.58	32	13	150	1	105
007A	EW-2	w	ND		ND	ND	ND	ND	1	102
	<u> </u>									
Report	ing Limit for DF =1;	w	50	5.0	0.5	0.5	0.5	0.5	1	μg/
ND me	ans not detected at or	9	NΔ	NA	NA	NA	NA	NA	1	mg/

ND means not detected at or	W	50	3.0	0.5	0.5	0.5	0.5		μg/L
above the reporting limit	S	NA	NA	NA	NA	NA	NA	1	mg/Kg
		· · · · · · · · · · · · · · · · · · ·	1 /T '11	1 1 / 11	, , ,		1	11/	

^{*} water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples in mg/L.

Angela Rydelius, Lab Manager

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



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Edd Clark & Associates, Inc.	Client Project ID: #0369; Earth In	Date Sampled: 03/09/06
320 Professional Center Ste. 215	Upheaval	Date Received: 03/10/06
D 1 C4 04020	Client Contact: Chris Janiszewski	Date Extracted: 03/10/06
Rohnert Park, CA 94928	Client P.O.:	Date Analyzed: 03/11/06

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Work Order: 0603177 Analytical methods: SW8015C Extraction method: SW3510C TPH(d) DF % SS Client ID Matrix Lab ID 92 85,d 1 EW-1 W 0603177-006B 1 104 0603177-007B EW-2 W ND

Reporting Limit for DF =1;	w	50	μg/L
ND means not detected at or above the reporting limit	S	NA	NA

^{*} water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / STLP / TCLP extracts are reported in µg/L.

Angela Rydelius, Lab Manager

[#] cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0603177

EPA Method: SW8021B/	8015Cm E	xtraction:	SW5030	В	BatchID: 20694			Spiked Sample iD: 0603193-021A			
Amplida	Sample	Spiked	мѕ	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
Analyte	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
TPH(btex) [£]	ND	60	106	106	0	106	106	0	70 - 130	70 - 130	
мтве	ND	10	90.1	90.4	0.273	88.9	91.3	2.66	70 - 130	70 - 130	
Benzene	ND	10	91.5	88.9	2.92	93.5	99.9	6.59	70 - 130	70 - 130	
Toluene	ND	10	93.9	85.1	9.88	94.6	99	4.53	70 - 130	70 - 130	
Ethylbenzene	ND	10	96.6	93.9	2.88	96.9	99.2	2.34	70 - 130	70 - 130	
Xylenes	ND	30	99.7	99.3	0.335	96	100	4.08	70 - 130	70 - 130	
%SS:	99	10	99	98	0.869	101	104	2.68	70 - 130	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 20694 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0603177-001A	3/09/06 3:25 PM	3/11/06	3/11/06 9:50 AM	0603177-002A	3/09/06 2:50 PM	3/13/06	3/13/06 T0:41 PM
0603177-003A	3/09/06 3:00 PM	3/11/06	3/11/06 10:54 AM	0603177-004A	3/09/06 3:35 PM	3/11/06	3/11/06 11:26 AM
0603177-005A	3/09/06 3:45 PM	3/13/06	3/13/06 11:14 PM	0603177-006A	3/09/06 4:00 PM	3/11/06	3/11/06 12:31 PM
0603177-007A	3/09/06 3:15 PM	3/11/06	3/11/06 1:03 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0603177

EPA Method: SW8015C	. 6	Extraction: SW3510C			BatchID: 20690			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
Atlatyte	µg/L	μg/L % Rec.		% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	111	108	2.72	N/A	70 - 130 .
%SS:	N/A	2500	N/A	N/A	N/A	106	107	0.118	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 20690 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0603177-006B	3/09/06 4:00 PM	3/10/06	3/11/06 9:48 AM	0603177-007B	3/09/06 3:15 PM	3/10/06	3/11/06 9:48 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QA/QC Officer

Edd Clark & Associates, Inc. Environmental	Image: State of the content of the	_	•
	Edd Clark &	Associates, Inc.	Environmental Consultants

(20317) Chain of

Chain of Custody Report

P.O. Box 3039, Rohnert Park, CA 94927 Tel: (707) 792-9500 (800) 474-1448 Fax: (707) 792-9504

E-mail in EDF for Upload to Geotracker:
Yes No Lattials

				7								T	`	-	
	Remarks									APPROPRIATE CONTAINERS.	8		Received by: Kathleen Owen	Received by:	
										REAT GOOD CONDITION HEAD SPACE ABSENT	ANDA NOLLY		Time: 31/5	Time:	
				:						GOOD CO HEAD SPA	PRESERVATION		Date:	Date:	
Analysis													3	, , , , , , , , , , , , , , , , , , ,	
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von C		SHALL XANG PHOL	×	X	X	X	X	X	\times				Rel	Ref	
	. F	# of Items	32	333	33	23	223	3/2	32					in	
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ZENDIK	Facility Name & Location:	Ne ID Sample oth) Type:	C) CLANT.						->				Time: F	Time: F	
	Facility 1989	Sample ID (depth)	100										Date:	, Date:	
Samplers Signature: (YVY)	369	Tine	335	3%	B	335	345	<u>8</u>	315				7	>	
s Signatur	EC&A job# 0369 Global I.D.#	Date	34/06						>		· ·		Refinquished by:	Relinquished by:	.
Sampler	EC&A Global J	Field Point Name		6. MW-	MW3	MM-W	-MW-5	Cw	E-M2				Refinds	Relinge	

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0603177

ClientID: ECAR

Page 1

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2

Chris Janiszewski

320 Professional Center Ste. 215 Edd Clark & Associates, Inc.

Rohnert Park, CA 94928

FAX 7EL:

Ö.

Bill to:

ProjectNo: #0369; Earth In Upheaval (707) 792-9500 (707) 792-9504

EDF: YES

Requested TAT:

5 days

Date Received:

Edd Clark & Associates, Inc. 320 Professional Center Ste.215

Accounts Payable

Rohnert Park, CA 94928

03/10/2006

Date Printed:

03/13/2006

Sample 1D

ClientSamplD

Collection Date Hold Matrix

4

Requested Tests (See legend below) œ ဖ ß

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/9/06 3:25:00 PM	/9/06 2:50:00 PM	/9/06 3:00:00 PM	/9/06 3:35:00 PM	/9/06 3:45:00 PM	/9/06 4:00:00 PM	/9/06 3:15:00 PM
3/6	3/9/0	3/9/0	r 3/9/06 3:35:00 PM	_	7 3/9/06 4:00:00 PM	7 3/9/06 3:15:00 PM
Water 3/9/06 3:25:00 PM	Water 3/9/06 2:50:00 PM	Water 3/9/06 3:00:00 PM			Water 3/9/06 4:00:00 PM	Water 3/9/06 3:15:00 PM
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MW-1 Water	WW-2 Water	MW-3 Water 3/9/0	MW-4 Water	MW-5 Water	EW-1 Water	EW-2 Water
Water	WW-2 Water	MW-3 Water 3/9/0	Water	MW-5 Water	EW-1 Water	EW-2 Water

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Prepared by: Kathleen Owen

Comments:

GI# T0609700517

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.